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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09-787,629	03/21/2001	Antero Laine	30-543	4663

7590

09/25/2002

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EXAMINER

ALVO, MARC S

ART UNIT

PAPER NUMBER

1731

DATE MAILED: 09/25/2002

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Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/787,629

Applicant(s)

LAINE ET AL.

Examiner

Steve Alvo

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 22 August 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 22-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 22-25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4
- 4) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 20- are rejected under 35 U.S.C. 103(a) as being unpatentable over LAAKSO in view of REINHALL '444 with or without GERVASI.

LAAKSO teaches an apparatus for treating pulp comprising an elongated casing (12) having plates at both ends, e.g. plate (68), the casing has a discharge conduit (65) and conduit going to pump (80), for the filtrate between the input and output end of the vessel. REINHALL '444 teaches dewatering pulp in vessel (10) and teaches that the pulp material and filtrate exiting the vessel can be controlled by valves (50) and (34) and the material entering the vessel can be controlled by valve (53). It would have been obvious to the routineer that the material into and out of the dewatering vessel of LAAKSO could have been controlled using valves in the manner taught by REINHALL '444. It would have been obvious that the rotating screw of LAAKSO that rotates close to the screen (78) would keep the screen clean. If this is not obvious then GERVASI teaches that a rotating screw can remove surplus material from the filter (screen). It would have been obvious from the teachings of GERVASI that the rotating screw of LAAKSO would keep surplus pulp from building up on the screen thereby keeping the filter surface clean. Claim 21 is rejected, as it would have been obvious to control the valves of LAAKSO based on impulse from a previous stage, e.g. the consistency, or the input power to the shaft as such is taught by REINHALL '444, e.g. 44→34.

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Claims 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over LAAKSO in view of REINHALL '444 with or without GERVASI as applied to claim 20 above, and further in view of WHITE et al.

WHITE et al teaches the alternativeness of having a screw supported by the screw helix to rotating shaft or to rod elements (Figure 18). It would have been obvious to space the helix of the screw of LAAKSO from the rotating shaft in the manner taught by WHITE. The actual spacing of the screw thread from the screen surface would have been an obvious design modification depending upon the type of pulp treated in the LAAKSO, e.g. the size of the pulp fibers and the consistency of the pulp slurry.

Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over LAAKSO in view of LAAKSO '444 with or without GERVASI and further in view WHITE et al as applied to claim 22 above, and further in view of REINHALL '221.

REINHALL '221 teaches dewatering pulp in a perforated screen having axial grooves. It would have been obvious that the perforated screen of LAAKSO could have axial grooves to dewater the pulp as taught by REINHALL '221. It would have been obvious to substitute the screen of REINHALL '221 for the screen of LAAKSO as they perform the same function of dewatering paper pulp.

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for entry into the file of the application. This will expedite processing of your papers. The "Unofficial" FAX phone number for this Art Unit (1731) is **(703) 305-7115**.

Any inquiry concerning this communication or earlier communications from the **primary examiner** should be directed to **Steve Alvo** whose telephone number is **(703) 308-2048**. The Examiner can normally be reached on Monday - Friday from **6:00 AM - 2:30 PM (EST)**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Steve Griffin, can be reached on 703-308-1164.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Group receptionist** whose telephone number is **703-308-0661**.

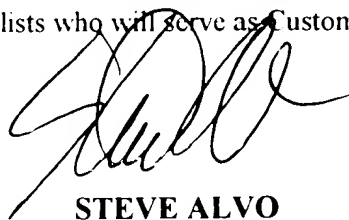
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MSA  
9/22/02



**STEVE ALVO  
PRIMARY EXAMINER  
ART UNIT 1731**